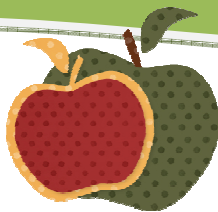


Elementary Math/Science News

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Numeracy Specialist: Nalsy Perez & Science Specialist: Donelle Williams

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REMINDER:

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Focus: Non-Negotiables & Rigor

BEST PRACTICES

Here are 5 best practices that can be easily implemented into your math and science instruction right away...

- Frequent use of manipulatives and tools
- Experiences documented in interactive notebooks
- Graphic organizers
- Peer talks
- Student generated questions

Are You On The Right Track???



Support ESL Math and Science Development by Linking Instruction to Language Domains

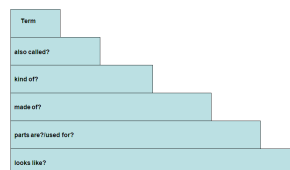
Just as with literacy and with science and social studies content areas, teachers working with ESL students need to address all four of the language domains: reading, writing, listening, speaking.

- Be explicit in teaching math and science vocabulary. Provide multiple opportunities for students to manipulate concrete examples.
- Keep story problems simple, but differentiate the difficulty of the numbers used in the problems.
- Create story problems using specific vocabulary that is within students' known skill range.
- Model strategies students can use to explain their thinking as they solve problems (ex. drawing pictures, using symbols such as dots or tallies, or using number lines) and explain experimental outcomes.
- Provide opportunities for students to listen to other students explain their strategies and thinking.
- Allow students to verbalize their thinking one-on-one to other students or to the teacher, rather than always in front of the large group.
- Model how students can invent and write their own story problems or design an alternative experiment.
- Provide anchor charts with math and science vocabulary and model the use of graphic organizers that students can refer to when writing story problems or explaining their scientific thinking.

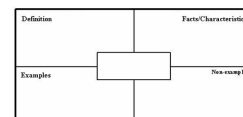
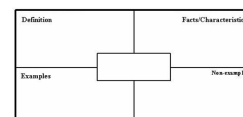
Example/Non-example T-Chart

Title:	
Example	Non-example

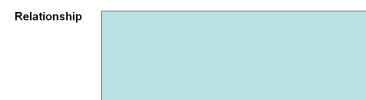
Concept Ladder



Frayar



Analogy



Support Spotlight



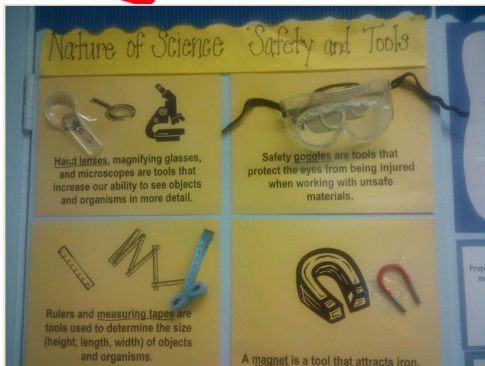
- Looking for teachers to become campus Math/Science "Data Doctors" who currently teach 3rd, 4th, or 5th grade math and/or science and are comfortable with manipulating data.
- Are you an expert in science content? The Science Curriculum Department wants to hear from you. Please contact Sandy Antalis, Science Manager, if you are interested in becoming an Interim Assessment Reviewer.

Math/Science Collaborative Sessions

Thanks so much to all of you who participated in the Math/Science Collaborative Sessions. We hope that you found the information useful and will integrate **technology best-practices** learned into **your math and science instruction**. Thanks again to Aaron Dominguez (Garcia ES) and Tiffany Chenier (McNamara ES) for allowing us to utilize their buildings as host campuses. Principals received a bulletin highlighting activities that took place and evidence of technology integrations to look for in the classrooms. With so many campuses within the Beth Dow network of schools, remember that we want to increase the power of sharing resources exponentially. Please submit SMART lessons to bdow.smart.lessons@gmail.com for review. We will upload documents to <http://bdow-network.wikispaces.com>.



Caught Red-Handed: DOING GREAT THINGS!



Word Walls should be inclusive of realia (real-life objects) whenever possible.



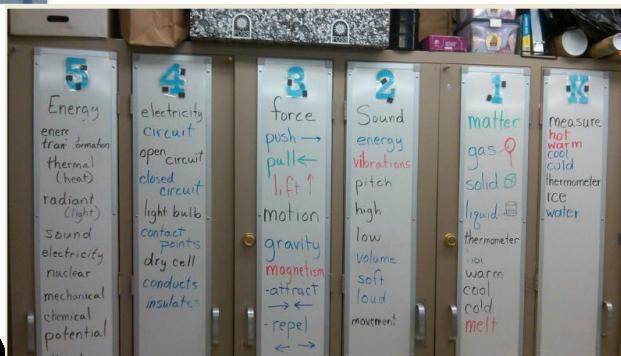
Bivens, Elrod ES



Student generated vocabulary...

Word Walls should be current and representative of the learning foci covered.

Shong, Kolter ES



Use of illustrations will help to solidify concepts, especially with ELL students.



Student generated word walls provide more meaning for the students.



Featuring: **Awesome Word Walls**